



COMMONWEALTH of VIRGINIA

DEPARTMENT OF FORENSIC SCIENCE

CENTRAL LABORATORY
A Nationally Accredited Laboratory

700 NORTH 5TH STREET
RICHMOND, VIRGINIA 23219
(804) 786-6971

CERTIFICATE OF INSTRUMENT ACCURACY

INSTRUMENT: Intox EC/IR II
SERIAL NUMBER: 010570
CERTIFICATION DATE: April 10, 2014
DATE RECERTIFICATION DUE: October 7, 2014

The above listed instrument was found to meet all requirements for accuracy and performance established by the Department of Forensic Science as required by §9.1-1101 (B)(3). Measurement traceability is established through the use of reference materials supplied by an ISO/IEC 17025:2005 accredited calibration laboratory.

Estimation of Uncertainty of Measurement:

0.020 ± 0.004 g/210 L 0.150 ± 0.007 g/210 L
0.080 ± 0.004 g/210 L 0.250 ± 0.007 g/210 L

The Uncertainty of Measurement is reported at the 99.73% level of confidence and a coverage factor of k=3. The estimation of the Uncertainty of Measurement is calculated for the Certification process only.

Michelle M. Billeter
Forensic Scientist

CITY OF RICHMOND
COMMONWEALTH OF VIRGINIA

The foregoing was acknowledged before me this 21st day of April, 2014 by Michelle M. Billeter

Teresa J. Brewster, Notary Public

My commission expires: April 30, 2017



MSK

**Department of Forensic Science
Breath Alcohol Section
Instrument Maintenance History
1/1/1990 To 4/14/2014**

*HMS
mmB*

Instrument Serial Number: 010570 **As of 14-Apr-14**

Maintenance	Certification	Technician	
Date	Date	Initials	Remarks
10-Apr-14	10-Apr-14	HMS (18910)	CERTIFIED
08-Jan-14	29-Oct-13	DBH (21250)	REPLACED UPS BACK-UP BATTERY.
29-Oct-13	29-Oct-13	DBH (21250)	FIRMWARE/SOFTWARE UPGRADE. CALIBRATED AND CERTIFIED. REPLACED DRY GAS STANDARD.
14-May-13	14-May-13	DBH (21250)	CERTIFIED.
27-Nov-12	27-Nov-12	SED (24178)	FIRMWARE/SOFTWARE UPGRADE. CALIBRATED AND CERTIFIED. REPLACED DRY GAS STANDARD.
09-Aug-12	09-Aug-12	DBH (21250)	CERTIFIED
30-Jul-12	30-Jul-12	HMS (18910)	REPLACED AND TESTED FUEL CELL MODULE, CALIBRATED AND CERTIFIED.
06-Feb-12	06-Feb-12	HMS (18910)	CERTIFIED, REPLACED DRY GAS STANDARD.
18-Aug-11	18-Aug-11	HMS (18910)	CERTIFIED
10-Mar-11	10-Mar-11	HMS (18910)	REPLACED DRY GAS STANDARD, CERTIFIED
29-Sep-10	29-Sep-10	HMS (18910)	CERTIFIED
22-Jun-10	13-Apr-10	RJP (22428)	REPLACED DRY GAS STANDARD.
13-Apr-10	13-Apr-10	HMS (18910)	REPLACED DRY GAS STANDARD, CERTIFIED
28-Oct-09	28-Oct-09	RJP (22428)	CERTIFIED.
16-Jun-09	16-Jun-09	HMS (18910)	CALIBRATED AND CERTIFIED.
22-Apr-09	22-Apr-09	NMJ (22392)	CALIBRATED, CERTIFIED AND ACCEPTED.

HHS
mmB

INTOX EC/IR II Quality Assurance Worksheet

Instrument Serial Number **010570** Worksheet Start Date **4/10/2014**

Location **DFS-Central**

Address

DFS Technician **Heather Stanton** License No. **18910**

☒ Laboratory ☐ On-Site

Site Specification: No detrimental environmental conditions exist. ☐

Instrument Barometer (mm HG) **760** Reference Barometer (mm HG) **762**

Reference Barometer(RB)Serial # **009113** RB Calibration Due **5/8/2014**

Measurement Assurance Check

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.306
0.300	0.300	0.291	0.309	Sample 2	0.306
Precision		sample min	sample max	Sample 3	0.305
0.001		0.305	0.306		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.101
0.100	0.100	0.097	0.103	Sample 2	0.101
Precision		sample min	sample max	Sample 3	0.101
0		0.101	0.101		

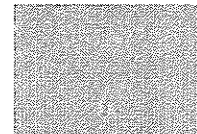
Dry gas standard Lot No. (with tank no.) **AG211702-15**

☐ Replaced dry gas standard (+O-ring)

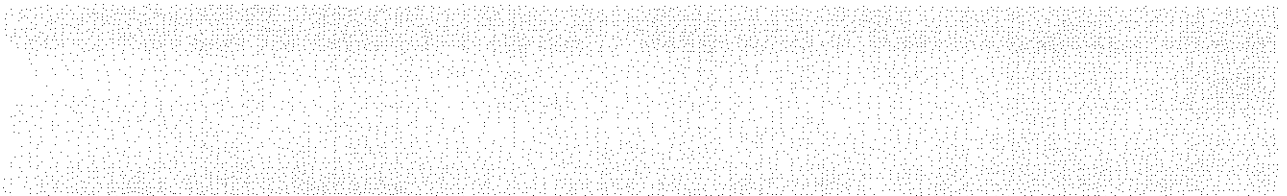
☐ Installed at Location

☐ Removed to DFS-Central

Supplies
Mouthpieces
Certificates of Analysis
Operator Worksheet
Other:



Notes:



Instrument Serial Number

010570

Certification Date

4/10/2014

☐ Calibrated☒ Certified☒ Measurement Assurance Check☒ Instrument Test☐ Troubleshooting/Maintenance Worksheet Completed

(Successful completion denotes satisfactory condition of the item.)

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.253
0.250	0.250	0.242	0.257	Sample 2	0.253
Precision		sample min	sample max	Sample 3	0.252
0.001		0.252	0.253		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.152
0.150	0.150	0.145	0.154	Sample 2	0.152
Precision		sample min	sample max	Sample 3	0.152
0		0.152	0.152		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.081
0.080	0.080	0.077	0.083	Sample 2	0.081
Precision		sample min	sample max	Sample 3	0.081
0		0.081	0.081		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.019
0.020	0.020	0.017	0.023	Sample 2	0.019
Precision		sample min	sample max	Sample 3	0.019
0		0.019	0.019		

All measurements are in g/210L

Estimation of Uncertainty of Measurement and traceability records are located within the Breath Alcohol Section

DFS Technician

Heath W. Stata

Date

4/14/14

Issuing Analyst

Michelle B. Miller

Date

4/14/14msl

HMS
mmB

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010570 Test Number: 1769
Test Date: 04/10/2014 Test Time: 12:49 EDT

Technician Initials: HMS

Dry Gas Target: 0.250

Lot Number: 0771325014-02 Exp Date: 05/01/2015

Tank Pressure: 370 psi Barometric Pressure: 759 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	12:49
BLK	0.000	12:50
CHK	0.253	12:51
BLK	0.000	12:53
CHK	0.253	12:54
BLK	0.000	12:55
CHK	0.252	12:56
BLK	0.000	12:58

Success

Standard Value (at sea level): 0.250 g/210L

Certification Status: Continued

HMS
mmB

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010570 Test Number: 1770
Test Date: 04/10/2014 Test Time: 13:01 EDT

Technician Initials: HMS

Dry Gas Target: 0.150

Lot Number: 07713150I3-01 Exp Date: 05/01/2015

Tank Pressure: 938 psi Barometric Pressure: 759 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	13:01
BLK	0.000	13:02
CHK	0.152	13:03
BLK	0.000	13:04
CHK	0.152	13:05
BLK	0.000	13:07
CHK	0.152	13:08
BLK	0.000	13:09

Success

Standard Value (at sea level): 0.150 g/210L

Certification Status: Continued

LMS
mmB

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010570 Test Number: 1771
Test Date: 04/10/2014 Test Time: 13:18 EDT

Technician Initials: HMS

Dry Gas Target: 0.080

Lot Number: 0771308012-02 Exp Date: 05/01/2015

Tank Pressure: 1066 psi Barometric Pressure: 759 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	13:19
BLK	0.000	13:20
CHK	0.081	13:21
BLK	0.000	13:22
CHK	0.081	13:23
BLK	0.000	13:24
CHK	0.081	13:25
BLK	0.000	13:26

Success

Standard Value (at sea level): 0.080 g/210L

Certification Status: Continued

HMS
mmB

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010570 Test Number: 1772
Test Date: 04/10/2014 Test Time: 13:29 EDT

Technician Initials: *HMS*

Dry Gas Target: 0.020

Lot Number: 0771302011-01 Exp Date: 05/01/2015

Tank Pressure: 625 psi Barometric Pressure: 759 mmHg

System Check: *Passed*

Test	g/210L	Time
DIAG	Pass	13:29
BLK	0.000	13:30
CHK	0.019	13:31
BLK	0.000	13:32
CHK	0.019	13:33
BLK	0.000	13:34
CHK	0.019	13:35
BLK	0.000	13:37

Success

Standard Value (at sea level): 0.020 g/210L

Certification Status: Success

HHS
mmb

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010570 Test Number: 1773

Test Date: 04/10/2014 Test Time: 13:40 EDT

Dry Gas Target: 0.300

Lot Number: AG321804-03 Exp Date: 08/06/2015

Tank Pressure: 188 psi Barometric Pressure: 759 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	13:40
CHK	0.306	13:41
BLK	0.000	13:43
CHK	0.306	13:44
BLK	0.000	13:46
CHK	0.305	13:47

Test Status: *Success*

Calibration CRC: 5626B5CC

HMS
mmB

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010570 Test Number: 1774

Test Date: 04/10/2014 Test Time: 13:49 EDT

Dry Gas Target: 0.100

Lot Number: AG211702-15 Exp Date: 04/26/2014

Tank Pressure: 272 psi Barometric Pressure: 758 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	13:50
CHK	0.101	13:51
BLK	0.000	13:52
CHK	0.101	13:53
BLK	0.000	13:55
CHK	0.101	13:55

Test Status: *Success*

Calibration CRC: 5626B5CC

AMS
mmB

INSTRUMENT, TEST,

DFS

STANTON, HEATHER, M

DFS Central Lab

18910

10/01/2014

04/10/2014

010570

04/10/2014

14:08 EDT

0.00



IntoxNet MIS Report

Report Generated 10 Apr 2014 at 14:14

Handwritten: HHS
mmB

Test Results

Instrument Serial Number 010570

Test # 001775 Subject Test

Test Location 1 Department of
Test Date 10 Apr 2014

Test Location 2 Forensic Science
Test Time 14:01
Remote/Local Local

Test Location 3
System Check Passed

Operator's Last Name STANTON
Agency DFS Central Lab

Operator's First Name HEATHER

Operator's Middle Initial M

Card Serial Number 118910

License Number 18910

Effective Date 10/01/2012

Expiration Date 10/01/2014

Subject's Last Name INSTRUMENT

Subject's First Name TEST

Subject's Middle Initial

Subject's Date of Birth 00/00/0000

Subject's Sex Male

Driver's License Number

Driver's License Expiration 00/00/0000

Driver's License State

Court Name DFS

End Date 10 Apr 2014 End Time 14:09

Result Time 14:08

Result Date 10 Apr 2014 Result 0.00

Data Type DIAG

Sample Value Pass

Sample Time 14:01

Data Type BLK

Sample Value 0.000

Sample Time 14:02

Data Type CHK

Sample Value 0.101

Sample Time 14:03

Data Type BLK

Sample Value 0.000

Sample Time 14:04

Data Type SUBJ

Sample Value 0.000

Sample Time 14:05

Data Type BLK

Sample Value 0.000

Sample Time 14:06

Data Type SUBJ

Sample Value 0.000

Sample Time 14:08

Data Type BLK

Sample Value 0.000

Sample Time 14:09

Standard Type Dry Gas Std

Standard Value 0.100

Standard Lot Number AG211702-15

Standard Expiration Date 04/26/2014

Tank Pressure 267

Barometric Pressure 759 mmHg

Blow Sample Number 1 Blow Duration 3.32 sec

Blow Volume 1861 cc End-of-Blow Time 14:05

Blow Sample Number 2 Blow Duration 3.21 sec

Blow Volume 1781 cc End-of-Blow Time 14:08

Tamper Evident Stamp 346b7d3a

Test Status Code 0

Test Status Success